

## **IDEATION PHASE**

### **Brainstorm & Idea Prioritization Template**


Date	18 OCTOBER 2022
Team ID	PNT2022TMID09862
Project Name	A Gesture-based Tool for Sterile Browsing of Radiology Images
Maximum Marks	4 Marks

#### **Brainstorm & Idea Prioritization Template:**

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

## Step-1: Team Gathering, Collaboration and Select the Problem Statement

Template




### Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 10 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended


[Share template feedback](#)



#### Before you collaborate


A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes




##### Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.



##### Set the goal


Think about the problem you'll be focusing on solving in the brainstorming session.



##### Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

[Open article](#)




#### Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes







#### PROBLEM


The doctors' hands should be sterile inside the Operation Theatre. They would often need to pick some objects or would try to ask for some objects. They should be able to communicate without touching any objects which may lead to some infections. We try to avoid direct contact by recognizing the hand gestures of the doctors using an UI that is associated with an AI model.



#### Key rules of brainstorming

To run an smooth and productive session

 Stay in topic.	 Encourage wild ideas.
 Defer judgment.	 Listen to others.
 Go for volume.	 If possible, be visual.



**Need some inspiration?**  
See a finished version of this template to kickstart your work.

[Open example](#)

## Step-2: Brainstorm, Idea Listing and Grouping

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Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

TIP  
You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

**ANAND S.P**  
Contactless  
Fast and efficient  
Gloves should not affect the gestures  
There is no need for verbal communication  
Use of high resolution camera enhance the recognition of gesture  
It should be a generalized model

**JOTABES.K**  
It avoids infections  
It should be able to capture the gesture fast  
There is no need for frequent sterility  
The model does not get distracted  
The model should work at any kind of locations  
The model could also be integrated with a robot

**SATHISH KUMAR.A**  
There is less possibility for misunderstanding of Hand Gestures  
The model should be accurate  
It is the future of medical domain  
The model might be biased  
The model should adapt to new gestures in future  
The model could be used in Industries too

**SHABEER.M**  
Less possibilities of new infections  
Doctor Computer Interaction based in non verbal communication  
A better UI  
The model should be stable at any kind of situation  
The future gestures should not impact model  
Large training data for generalization

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Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes



**Gloves and Infections:**  
It avoids infections  
Contactless  
Gloves should not affect the gestures  
Less possibilities of new infections

**Communication:**  
The future gestures should not impact model  
The model should work at any kind of locations

**Model Complexities:**  
The model might be biased  
The model should adapt to new gestures in future  
It should be a generalized model

**Sensors and cameras:**  
Doctor Computer Interaction based in non verbal communication  
There is less possibility for misunderstanding of Hand Gestures  
It should be able to capture the gesture fast  
Use of high resolution camera enhance the recognition of gesture





### **Step-3: Idea Prioritization**

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### Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

